

<p>1015-82</p>  <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p>	<p>EPA Reg. Number: 1015-82</p>	<p>Date of Issuance: 5/29/18</p>
		<p>Term of Issuance: Unconditional</p> <p>Name of Pesticide Product: SANAFOAM® DIQUAT</p>
<p>Name and Address of Registrant (include ZIP Code): Nicole O'Loughlin Douglas Products and Packaging Company c/o Pyxis regulatory Consulting Inc. 4110 136th St. Ct. NW Gig Harbor, WA 98332</p>		
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data. 		
<p>Signature of Approving Official:</p>  <p>Erik Kraft, Product Manager 24 Fungicide & Herbicide Branch, Registration Division (7505P)</p>	<p>Date: 5/29/18</p>	

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 1015-82.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated January 25, 2018

If you have any questions, please contact Driss Benmhend by phone at (703) 308-9525, or via email at Benmhend.driss@epa.gov.

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text. Bracketed text will sometimes include a slash (/), which indicates that the registrant will chose one of the available options on the final printed label.]

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

{FRONT PANEL}

SANAFOAM[®] DIQUAT

For use to control tree root intrusions in sanitary sewers, storm drains, and other drainage systems.

ACTIVE INGREDIENT:	By Weight
Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide]:	37.3%
OTHER INGREDIENTS:	62.7%
TOTAL:	100.0%

Contains 2 lbs. diquat cation per gallon (3.73 lbs. or diquat dibromide per gallon).

KEEP OUT OF REACH OF CHILDREN CAUTION

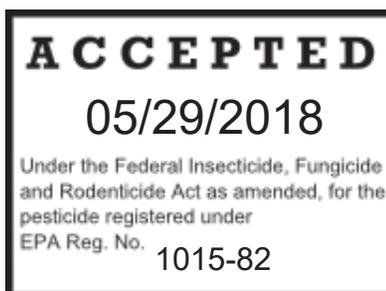
FIRST AID	
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
For additional information in case of emergency call toll free (1-800-858-7378). Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
NOTE TO PHYSICIAN	
To be effective, treatment for diquat poisoning must begin IMMEDIATELY. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.	

See additional **PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, including STORAGE AND DISPOSAL** [inside booklet/on side panel/on back panel/on other panel]

EPA Reg. No. 1015-xx
EPA Est. No. _____

Net Contents: _____

Manufactured for:
Douglas Products and Packaging Company
1550 East Old 210 Highway
Liberty, MO 64068



{SIDE/BACK PANEL or INSIDE LABEL BOOKLET}

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, Loaders, Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants or coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- Face shield when mixing or loading

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note – Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks

Exception: If a closed system is used during mixing, dilution, product transportation, and cleaning, and applications will be made to closed, subsurface sewers and drains, and the product will be diluted in the closed system with water at a ratio of at least 1 part product to 50 parts water prior to use, then applicators, mixers, loaders, and other handlers may wear:

- Short-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates.

For Aquatic Uses, do not apply directly to water except as specified on this label.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing
- Do not enter manholes or other confined space areas adjacent to treated areas until all foam or spray has dried and always use full Federal and State OSHA mandated procedures for confined space entry.

PRODUCT INFORMATION

Sanafoam® Diquat is uniquely suited to sewer applications. Sanafoam® Diquat is a soluble liquid designed to control tree roots in sewer, on contact. Sanafoam® Diquat is a non-selective herbicide, which works all varieties of tree roots and will not harm above-ground vegetation, when applied according to label instructions. Sanafoam® Diquat is not volatile and will not produce toxic gases.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not use in potable water systems. Do not use in storm, field or other drains unless effluent is treated in a sanitary sewer system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Refer to the personal protective equipment information under Precautionary Statements and use all required protective clothing and equipment.

Sanafoam® Diquat may be applied directly to sewers either as a high-pressure spray or as a foam. Sanafoam® Diquat may be applied in conjunction with herbicides, surfactants and foaming agents available through Douglas Products. Sanafoam® Diquat is not compatible with anionic surfactants.

Consider pipe size, sewer flow, lateral conditions, line obstructions, and severity of root intrusion in selecting proper application technique.

Mixing Instructions

Before mixing, determine the scope of work, including pipe size and overall lineal footage, while assessing field conditions. Using the charts below as guidance, determine the amount of solution required for the job.

Small Diameter Pipes

Total Gallons Prepared Solution	Treatment Area (Lineal Feet) per Pipe Diameter				
	4"	6"	8"	10"	12"
10	300'	140'	80'	50'	35'
100	3000'	1400'	800'	500'	350'
200	6000'	2800'	1600'	1000'	700'
300	9000'	4200'	2400'	1500'	1050'

Large Diameter Pipes

Total Gallons Prepared Solution	Treatment Area (Lineal Feet) per Pipe Diameter								
	15"	18"	21"	24"	27"	30"	36"	42"	48"
10	35'	27'	23'	20'	17'	15'	12'	11'	10'
100	350'	270'	230'	200'	170'	150'	120'	110'	100'
200	700'	540'	460'	400'	340'	300'	240'	220'	200'
300	1000'	810'	690'	600'	510'	450'	360'	330'	300'

Prepare solution by mixing at a rate of 2 quarts of Sanafoam® Diquat per 100 gallons of water. Use only clean, fresh water to prepare the solution. Prepare enough solution to complete the job, or to fill the solution tank, whichever is less. Use solution promptly after mixing.

If foaming method will be used, add the amount of foaming agent required to produce 20 gallons of foam per gallon of solution, as prepared above. Only use foam-making equipment approved by Douglas Products, and

additives approved by Douglas Products which specifically state for use with Sanafoam Diquat on the label. Sanafoam® Diquat is not compatible with anionic surfactants.

Restrictions

- Do not exceed 2 quarts Sanafoam Diquat in 100 gallons water per application.
- Do not exceed 16 quarts Sanafoam Diquat in 800 gallons per year.
- Do not exceed 8 applications per year at a retreatment interval of 14 days.

Spray Application

Prepared Sanafoam® Diquat solution may be sprayed into sewers at various pressures and flow rates, depending upon the capabilities of the application equipment. Do not exceed the equipment manufacturer's directions for pressures and flow rates.

Begin at downstream sections of the area to be treated. Insert the spray discharge hose through the length of the pipeline intended for treatment. Spray the prepared Sanafoam® Diquat solution under pressure as the hose is retrieved. Retrieve the discharge hose at a rate sufficient to contact and saturate all root masses in the pipeline with Sanafoam® Diquat solution, applying to the point of runoff. Monitor tank level and solution flow rate to calibrate discharge hose retrieval rate, in order to evenly apply all prepared solution.

Treat large pipes (15" or larger in diameter) with a hose fitted with skids designed to elevate the discharge nozzle. This will center the discharge nozzle in the pipe and enhance performance. Contact Douglas Products to obtain skids, if needed.

Treat manholes by retrieving hose vertically while spraying walls to the point of runoff. Do not re-enter manholes until sprays have dried.

Foam Application

Mixing prepared Sanafoam® Diquat solution with foam during application extends contact time of roots with product and helps product to reach roots in lateral connections. Foam application equipment used with Sanafoam® Diquat must be approved by Douglas Products and used only by applicators trained to operate the equipment. Training in Sanafoam® Diquat application by foam is available from Douglas Products.

Begin at downstream sections of the area to be treated. Insert the spray discharge hose through the length of the pipeline intended for treatment. Spray the prepared Sanafoam® Diquat solution and foam under pressure as the hose is retrieved.

Treat manholes by applying a 3" layer of foam to walls while retrieving hose vertically. Do not re-enter manholes until foam has dried.

Building Laterals: Building laterals may be treated using the foaming method by injecting the foam via flow-through inflatable cleanout plugs. Cap or plug all drain lines, cleanouts, and fixtures that tie into the line being treated. Determine the lateral pipe size and length and operate equipment for the time it takes to product the required amount of foam. Use caution to prevent plug blow out.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs or drinking water. Do not store or transport near feed or food. Store at temperature above 32°F.

PESTICIDE DISPOSAL: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[NONREFILLABLE CONTAINERS]: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable \leq 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable $>$ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[REFILLABLE CONTAINERS]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of container in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities. If burned, stay out of smoke.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

Warranty Disclaimer

To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

[EPA Approval Date]